

ABSTRACT OF THE DISCLOSURE

A sound reproduction system includes headphones (11). The headphones include structures for generating sound (4, 5) and
5 microphones (6, 7). Further, the system includes filters (8,9) for filtering a signal such that the sound produced simulates external sound sources. The system includes a feed-back and control system (10) in which signals ($r_l(k)$, $r_r(k)$) from the microphones (6, 7) are used to set the settings $W_{XL}(k)$, $W_{XR}(k)$ of the filters (8,9).

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